# **FACILITY STATUS CHANGE FORM**

Date Submitted:	Area:	Control #:				
Jul 9, 2012	300 Area	D4-300-055				
Originator:	Facility ID:					
John Harrie	3746 & 3746A					
Phone:	Action Memorandum:					
509.308.9935	Action Memorandum #3					
This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.						
Section 1: Facility Status						
All D4 operations required by a	action memo complete					
The state of the s	on memo partially complete, remaining or	porations deferred				
D4 Operations required by activities	on memo partially complete, remaining of	perations deferred.				
Description of Completed Activities a	and Current Conditions:					
<u>Deactivation</u> : Utility isolations were perfor	med on the facility prior to beginning facility	decontamination.				
HEPA filters and miscellaneous construction accordance with <i>Removal Action Work for Embedding</i> . Above-grade demolition of the slabs was completed in March of 2012, and		waste disposition was performed in ion 2 (RAWP).  Below-grade demolition of the foundation pris were removed and disposed of at ERDF.				
Section 2: Underlying Soil Status		37				
VALUE   10   10   10   10   10   10   10   1	lo additional actions anticipated.					
Documented waste site(s) pres	sent. Cleanup and closeout to be addressed under Record of Decision.					
Potential waste site discovered	Potential waste site discovered during D4 operations. Waste site identification number <to be=""> assigned.</to>					
Cleanup and closeout to be ad	dressed under Record of Decision.					
Attachment 3.	tions: e removed and disposed of at EDRF. A C Site(s) or Nature of Potential Waste Sit	• The second second second				
Section 3: List of Attachments  1. Facility information (building history, 2. Project photographs. 3. GPERS Survey	characterization and identification of docu	umented waste sites).				

WCH-EE-297 (12/11/2007) Page 1 of 2

**FACILITY STATUS CHANGE FORM** 

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DOE-RL Larry Have	elloés		Date 5 2012
Lead Regulator	⊠ EPA	Ecology	Date

**DISTRIBUTION:** 

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Administrative Record, H6-08

SIS Coordinator: Ben Cowin, H4-22

D4 EPL: Chris Strand, L7-10

Sample Design/Cleanup Verification: Megan Proctor, H4-22

FR Engineering: Jason Olsson, L6-06

FR EPL: Chris Strand, L7-10

## **Attachment 1: Facility Information**

### **Building History:**

The 3746 Irradiation Physics Building, constructed in 1945, was a 72.5' x 30.5', one-story, wooden building with a gable roof. 3746 had ten rooms comprised of a small electronics laboratory; a shop; a dark room; a storage room; two restrooms and four offices. The building was cooled with a swamp cooler and heated with steam. The original wood siding was covered with asbestos transite shingles and interior transite wall surface was replaced with gypsum drywall sometime in the 1970s or early 1980s. 3746 provided support space for personnel associated with health physics and research including testing composition of process substances and calibration of TLDs.

The 3746A Radiological Physics Laboratory, constructed in 1976, was a 97; x 52', one-story, concrete block structure built on a concrete slab at grade. The original building housed four offices, seven laboratories and support rooms, a water purification room and a mechanical room of various sizes including the cell biology laboratory; a tissue culture laboratory; the instrumentation development and microdosimetry room; an X-ray room, two radiation and biochemistry laboratories and a microspecrofluorimetry room. In 1981, four additional offices and two laboratories were built. The building was connected to the process sewer and the laboratory/hood exhausts flowed through the HEPA filter system on the roof. 3746A provided office and laboratory space for the PNNL Radiological Science Department, Washington State University and for 300 Area craft personnel.

#### **Building Characterization:**

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3746 and 3746A Buildings.

Table 1. Summary of Characterization Surveys at the 3746 and 3756A.

Type	Date	Documented In	Results Summary	
Pre-Demolition				
Asbestos	April 24, 2007	CNN 133476	ACM was found in floor tile, mastic and pipe insulation in 3746 and 3746A. 3746 was sheathed with transite siding.	
IH Surveys and Beryllium Characterization	Oct 27, 2011	CNN # 162504	Slabs were cleared for Be.	
Radiological Surveys	August 22, 2005, November 14, 2005 January 7, 2006.	RSR-300PS-05-0742 RSR-300PS-05-1135 RSR 300PS-06-0253.	No radiological contamination was identified.	

#### Associated WIDs sites:

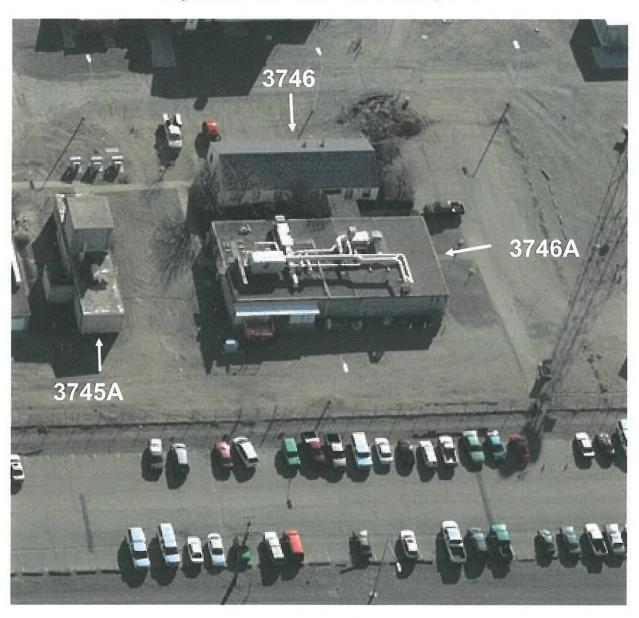
300-15 (300 Area Process Sewer).

### **Anomalies Discovered During Demolition.**

No anomalies were discovered during the demolition of 3746 and 3746A. Soil beneath the slabs displayed no visual evidence of staining or discoloration.

# **Attachment 2: Project Photographs**

Figure 1: 3746 and 3746A on March 21, 2006





North

Figure 2. 3746 Building on June 1, 1957



Figure 3. 3746A Building on July 9, 1978



Figure 4. 3746 and 3746A after above-grade demolition on July 16, 2008





North

Figure 5. Looking north at 3746 and 3746A following below-grade demolition on March 27, 2012.



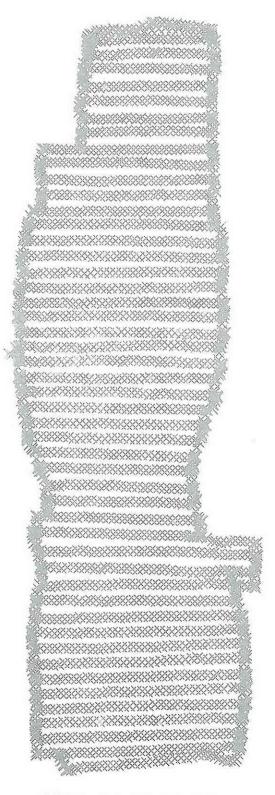
Figure 6. Looking south at 3746 and 3746A following backfill on June 13, 2012.



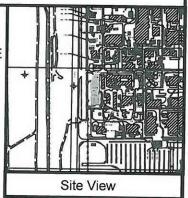
**Attachment 3: GPERS Survey** 

## 300 D4 - 3709, 3745A/B, 3746/A GPERS Radiological Survey - Gamma Track Map





Bkg Location 465 meters NNE 1290 cpm



### Net cpm

× <1935 1935 - 5000 5000 - 10000 10000 - 25000

25000

#### **Summary Statistics**

Coverage File: D075 Number of Data Pnts: 2519 Type of Survey: gamma Max GCPM: 2062 Avg Bkg CPM: 1290 Survey Date: 3/15/2012 Area Surveyed: 3646 m^2 Project File: ESRFRM120040 Pdf File: ESRFRM120040C





Survey map Prepared by Bruce Coomer, ESI

Copy

0 2.5 5 10 15 20 25 Meters